

IN THE CLAIMS:

- 1 1. (Previously Presented) In a lift device having a platform
2 movable between a lower position, an upper position, and
3 a stowed position, and connected to a lever arm assembly
4 and a hydraulic apparatus actuated by a pump and motor
5 assembly, the improvement comprising providing a direct
6 current (DC) electric motor with control circuitry to
7 adjust the speed of said DC electric motor and thereby
8 the speed of the platform.
- 1 2. (Previously Presented) In the lift device of claim 1, the
2 lever arm assembly comprising at least one parallelogram
3 structure.
- 1 3. (Currently Twice Amended) In the lift device of claim 1,
2 said control circuitry ~~in the pump and motor assembly~~
3 being ~~selected~~ configured to adjust the speed of said DC
4 motor so that the platform moves more slowly when
5 pivoting from and to the stowed position than when the
6 platform moves between the lower and upper positions.
- 1 4. (Previously Presented) In the lift device of claim 1, the
2 platform assuming a substantially horizontal orientation
3 in the lower or upper position and pivotable to a
4 substantially vertical orientation in the stowed
5 position.
- 1 5. (Previously Presented) In the lift device of claim 1,
2 said control circuitry including a variable resistance
3 circuit.

1 6. (Previously Presented) In a lift device of the type used
2 to raise a vehicle vertically for enabling ready access
3 to the vehicle's undercarriage, said lift device
4 comprising a platform for supporting a vehicle movable
5 from ground to an elevated position and back to ground
6 again, the improvement comprising providing a direct
7 current electric motor with variable resistance control
8 circuitry for actuation of a pump and hydraulic apparatus
9 so that speed of motion of said platform is variable.

1 7. (Previously Presented) A lift device, comprising:
2 a platform;
3 a lever assembly coupled to said platform;
4 a hydraulic apparatus coupled to said lever assembly, an
5 actuation of said hydraulic apparatus moving said
6 platform through said lever assembly;
7 a hydraulic pump coupled to said hydraulic apparatus;
8 a direct current (DC) motor coupled to drive said
9 hydraulic pump; and
10 a control circuit coupled to said DC motor, said control
11 circuit adjusting a speed of said DC motor to
12 effectuate a variation in a speed of motion of said
13 platform through said hydraulic pump, said
14 hydraulic apparatus, and said lever assembly.

1 8. (Previously Presented) The lift device of claim 7,
2 wherein said lift device is configured to function as a
3 wheelchair lift.

1 9. (Previously Presented) The lift device of claim 7,
2 wherein said lift device is configured to function as a
3 truck tailgate lift.

1 10. (Previously Presented) The lift device of claim 7,
2 wherein said lever assembly comprises at least one
3 parallelogram structure.

1 11. (Previously Presented) The lift device of claim 7,
2 wherein said lever assembly is configured to move said
3 platform between a lowered position, a raised position,
4 and a stowed position.

1 12. (Previously Presented) The lift device of claim 11,
2 wherein said lever assembly is configured to maintain
3 said platform in a substantially horizontal orientation
4 at the lowered position and at the raised position, and
5 to pivot said platform to a substantially vertical
6 orientation at the stowed position.

1 13. (Previously Presented) The lift device of claim 12,
2 wherein said control circuit includes at least one
3 solenoid valve configured to actuate a translation motion
4 and a pivot motion of said platform through said lever
5 assembly.

1 14. (Previously Presented) The lift device of claim 12,
2 wherein said control circuit controls a speed of said DC
3 motor so that said hydraulic apparatus moves said
4 platform at a first speed between the lowered position
5 and the raised position and pivots said platform at a
6 second speed less than the first speed to and from the
7 stowed position.

1 15. (Previously Presented) The lift device of claim 7,
2 wherein said control circuit is configured to control a
3 speed of said DC motor by controlling a current flowing
4 through said DC motor.

1 16. (Previously Presented) The lift device of claim 15,
2 wherein said control circuit includes a variable
3 resistance circuit.

1 17. (Previously Presented) The lift device of claim 15,
2 wherein said control circuit includes:
3 a power supply; and
4 a variable resistance element serially coupled between
5 said power supply and said DC motor.

1 18. (Previously Presented) The lift device of claim 17,
2 wherein said variable resistance element includes:
3 a first switch having a first terminal coupled to said
4 power supply and a second terminal coupled to said
5 DC motor;
6 a second switch having a first terminal coupled to said
7 power supply and a second terminal; and
8 a resistor having a first terminal coupled to said second
9 terminal of said second switch and a second
10 terminal coupled to said DC motor.

1 19. (Currently Once Amended) The lift device of claim 18,
2 wherein said control circuit further includes:
3 a third ~~first control~~ switch coupled to a control
4 terminal of said first switch in said variable
5 resistance element; and
6 a fourth ~~second control~~ switch coupled to a control
7 terminal of said second switch in said variable
8 resistance element.

1 20. (Currently Once Amended) The lift device of claim 19,
2 wherein:
3 an activation of said third ~~first control~~ switch turns on
4 said first switch in said variable resistance
5 element to cause a first current through said DC
6 motor; and
7 an activation of said fourth ~~second control~~ switch turns
8 on said second switch in said variable resistance
9 element to cause a second current less than the
10 first current through said DC motor.